

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1-3 (Canceled)

4. (Currently amended) A system for controlling the temperature in a network interface device that is located at a subscriber premises and that connects a communications channel in a communications network to the subscriber premises, the system comprising:

a temperature controlling device;

a storage device for storing electrical power that may be used for powering the temperature controlling device; and

a **programmed** server for selectively passing electrical power from the communications channel to the storage device **when the electrical power at the storage device falls below a predetermined level and for selectively passing electrical power from the storage device to the temperature controlling device in response to a predetermined temperature within the network interface device.**

5. (Original) The system of claim 4, further comprising a power regulating circuit for generating electrical power from the communications channel, whereby the electrical power may be passed by the server to the storage device.

6. (Canceled)

7. (Original) The system of claim 4, further comprising an auxiliary power source that may be used for powering the temperature controlling device when the power from the communications channel is insufficient for powering the temperature controlling device.

8. (Original) The system of claim 7, wherein the auxiliary power source is a solar panel.

9. (Original) The system of claim 7, wherein the auxiliary power source is a household electrical power source at the subscriber premises.

10. (Original) The system of claim 4, wherein the communications channel is a telephone line comprised of a twisted pair of wires.

11. (Original) The system of claim 4, wherein the communications channel is a coaxial cable.

12. (Original) The system of claim 4, wherein the storage device is a capacitor.

13. (Canceled)

14. (Original) The system of claim 4, wherein the network interface device comprises a processing device for processing signals received over the communications channel, and wherein the temperature controlling device dissipates heat generated during operation of the processing device.

15. (Original) The system of claim 14, wherein the temperature controlling device comprises a fan.

16. (Original) The system of claim 15, wherein the server comprises a temperature sensor for sensing the temperature at the processing device and for causing the temperature controlling device to be activated when the temperature at the processing device reaches a predetermined level.

17. (Original) The system of claim 14, wherein the communications channel comprises a telephone line having a twisted pair of conductors, and wherein the processing device comprises DSL modem.

18. (Original) The system of claim 4, wherein the network interface device is located at the exterior of the subscriber premises.

19. (Original) The system of claim 4, wherein the communications channel is a telephone line comprised of a twisted pair of conductors, wherein the telephone line carries telecommunications signals for providing telecommunications services to the subscriber premises, and wherein the telecommunications signals are used to provide electrical current that may be stored at the storage device.

20. (Currently amended) The system of claim [4] 19, wherein the telecommunications services comprise digital subscriber line (DSL) service using both low frequency signals that may provide voice communications and high frequency signals that may provide data communications, and wherein the low frequency signals are regulated for providing the electrical power.

21. (Currently amended) In a telecommunications network wherein a service provider network provides telecommunications services to a subscriber over a telecommunications line connected to a network interface device (NID) at the subscriber premises, a system for cooling the NID comprising:

temperature controlling means for controlling the temperature at the NID;

storing means for storing electrical power at the NID; and

programmed server means at the NID for selectively passing electrical power from the telecommunications line to the storing means when the electrical power at the storage device falls below a predetermined level, so that the storing means may be used to provide electrical power to the temperature controlling means, and for selectively passing electrical power from the storing means to the temperature controlling means in response to a predetermined temperature within the NID.

22. (Original) The network of claim 21, wherein the telecommunications line is a twisted pair telephone line, wherein the telephone line carries telecommunications signals for providing both voice service and data service to the subscriber, wherein the NID further comprises processing means that generate heat when using the telecommunications signals to provide the data service, and wherein the telecommunications signals have electrical current that

may be selectively passed by the server means to the storing means for use in powering the temperature controlling means, thereby dissipating heat generated at the processing means.

23. (Original) The system of claim 21, further comprising auxiliary power means for supplementing the electrical power at the storing means.

24-26. (Canceled)

27. (Currently amended) A method for cooling a network interface device (NID) located at a subscriber premises, the NID connecting a telecommunications line to the subscriber premises, the method comprising:

providing a temperature controlling device at the NID;

powering the temperature controlling device with electrical power from a storage device at the NID; ~~and~~

using current from telecommunications signals on the telecommunications line to store electrical power at the storage device;

providing a programmed server at the NID; and

using the server for:

periodically checking the level of power stored at the storage device, and selectively passing current on the telecommunications line to the storage device when the level of power stored is below a predetermined level;

sensing the temperature at the NID; and

powering the temperature controlling device when the temperature at the NID reaches a predetermined level.

28. (Canceled)

29. (Currently amended) The method of claim 28, wherein the temperature controlling device is a cooling device, ~~the method further comprising:~~

~~sensing the temperature at the NID; and~~

~~powering the cooling device when the temperature at the NID reaches a predetermined level.~~

30. (Original) The method of claim 29, wherein the telecommunications line provides DSL service to the subscriber premises, wherein the NID includes a DSL device, and wherein the cooling device is powered to dissipate heat at the DSL device.

31. (Original) The method of claim 30, wherein the NID includes subscriber telecommunications devices, wherein the subscriber premises includes subscriber equipment, and wherein the method further comprises:

sensing the current level on the telecommunications line;

providing an alarm signal if the current level on the telecommunications line is insufficient to properly power the devices within the NID and the equipment within the subscriber premises.

32. (Original) The method of claim 27, further comprising:

supplementing the power from the storage device with power from an auxiliary power source, when the power from the storage device is insufficient to power the temperature controlling device.

33. (Canceled)

34. (New) A system for powering and controlling the temperature of a network interface device (NID) that is located at a subscriber premises, wherein the NID connects a telecommunications line from a telecommunications network to the subscriber premises, wherein the NID includes at least one active service device used in providing telecommunications service to the subscriber, and wherein the subscriber premises includes subscriber equipment, the system comprising:

a temperature controlling device;

a storage device for storing electrical power that may be used for powering the temperature controlling device; and

a programmed server for selectively passing electrical power from the telecommunications line to the storage device when the stored electrical power at the storage device is below a predetermined level, for selectively passing electrical power from the storage device to the temperature controlling device in response to a predetermined temperature at the active service device, and for sensing the electrical current level on the telecommunications line and providing an alarm signal if the current level is insufficient to power the active service device, the subscriber equipment, and the temperature controlling device.

35. (New) The system of claim 34, wherein the server repeats the sensing of the stored electrical power at the storage device and the sensing of the electrical current level on the telecommunications line, after a predetermined period of time.

36. (New) The system of claim 35, wherein the server further senses the electrical current level being drawn by the active service device within the NID.

37. (New) A system for powering and controlling the temperature of a network interface device (NID) that is located at a subscriber premises, wherein the NID connects a telecommunications line from a telecommunications network to the subscriber premises, wherein the NID includes at least one active service device used in providing the telecommunications service to the subscriber, and wherein the subscriber premises includes subscriber equipment, the system comprising:

a temperature controlling device that may be powered from electrical power on the telecommunications line;

an auxiliary power device for powering the temperature controlling device independently of the stored electrical power from the telecommunications line; and

a programmed server for selectively passing telecommunications line power to the temperature controlling device in response to a predetermined temperature at the active service device, and for selectively passing power from the auxiliary power device to the temperature

Appl. No. 10/611,324

Amdt. dated June 6, 2005

Reply to Office Action of March 24, 2005

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controlling device when the power from the telecommunications line is insufficient to power the temperature controlling device.